Montana Department of
ENVIRONMENTAL QUALITY
WATER PROTECTION BUREAU

Agency Use
Permit No.:
Date Rec'd
Amount Rec'd
Check No.
Rec'd By CB

FORM
NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP Status *(Check one):*

x☐ New — No prior NMP submitted for this site.

☐ Modification — Change or update to existing NMP.

Permit Number: MT G010213 (Specify the permit number that was previously assigned to your facility.)

Section B - Facility or Site Information:

Site Name **Bar S Feed Lot**

Site Location **East of Shelby**

Nearest City or Town **Shelby** County **Toole**

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name **Benny Kropius**

Mailing Address

City, State, and Zip Code

Phone Number 406-750-1639

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Section D - NMP Minimum Elements:

1. Livestock Statistics

Animal Type	# of Days on Site (per Year)	Annual Manure Production (cubic yds or gal)
Horse	Jan Early - Dec Late	2820

Method used for estimating annual manure production:

Values are annual and cumulative, based on measured previous year applications and documented by NRCS using Purdue Universities Manure Management Planner program, as part of an Approved CNMP

2. Manure Handling

Describe manure handling at the facility:

Manure is currently scraped, and hauled away by second party annually . All loads are transferred with load weights and manure analysis. The hauler, date, and second party name is provided. All manure is in solid form

Frequency of Manure Removal from confinement areas:
annually

Manure is removed from holding facility monthly

Is this manure temporarily stored in any location? ☐ Yes xx ☐ No
If so then how and where?

See site plan for location

Is manure stored on impervious surface? ☐ Yes x ☐ No

If yes, describe type and characteristics of this surface:

3. Waste Control Structures

Waste Control Structure (name/type)	*Length (ft)*	*Width (ft)*	*Depth (ft)*	*Volume (cubic ft or gallons)*
1. Open Lot	600	800	8	2820tons
2. Runoff Evaporation Pond	135	40	16	101,653 gal
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

4. Disposal of Dead Animals

Describe how dead animals are disposed of at this facility:

Trench 10ft wide 8ft deep 100 ft long all animals are covered daily

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

Water that falls on the facility is diverted to evaporation pond, see facility map. Dike's have been placed to make sure water is diverted into evaporation pond from open lots.

6. Prohibiting Animals and Wastes from Contact with State Waters
Describe how animals and wastes are prohibited from direct contact with state waters:

All livestock are separated from State Waters by fence. See facilities map

7. Chemicals and Contaminants
Describe how chemicals and other contaminants are handled on-site:

No chemicals are stored on site.

8. Best Management Practice (BMPS)
Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's **production area**. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Practices include: Diversion is in place to keep water moving to evaporation pond and out of the feed stack area. Manure is removed annually from facility. A two inch manure pack remains at all times on the open lots. The manure is moved from lots and picked up by second party

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's **land application area**. Indicate the location of these practices. Include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites; never spray irrigating wastes onto frozen ground; consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.

Plant sampling/tissue analysis No Rotational grazing No

Conservation or reduced tillage No Manure injection or incorp. No

Terraces or water control sturc. No Contour plantings No

Riparian buffers Veg. filter strips No Cover crops No

If manure export plan is terminated, section E of the nutrient management plan will be completed.

9. Implementation, Operation, Maintenance and Record Keeping – Guidance

The permittee is required to develop guidance addressing implement of NMP, proper operation and maintenance of the facility, and record keeping as described in Part II of the permit.

Has a guidance document been developed for the facility?xx ☐ Yes ☐ No

Certify the document addresses the following requirements:

Implementation of the NMP:	x ☐ Yes	☐ No
Facility operation and maintenance:	x ☐ Yes	☐ No
Record keeping and reporting:	x ☐ Yes	☐ No
Sample collection and analysis:	x ☐ Yes	☐ No
Manure transfer:	x ☐ Yes	☐ No

Provide name, date and location of most recent documentation

NRCS completed a CNMP for this operation in 3-14-07. Manure analysis is completed annually by Agvise. Latest analysis stated 6-04-08. All records are kept on site.

If your answer to any of the above question is no, provide explanation

Section E – Land Application

Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?

x ☐ No If no, then provide an explanation of how animal waste at this site are managed.

☐ Yes If yes, then the information requested in Section E must be provided.

100% manure transfer to second party. Records containing receiving party, date received, amount transferred, and manure analysis are maintained on site.

Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any down-gradient surface waters
- The location of any down-gradient open tile line intake structures
- The location of any down-gradient sinkholes
- The location of any down-gradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field.
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibrating procedures:

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to the following method:

☐ The recommended method(s) found in Section 5 of Department Circular DEQ 9

☐ Other (describe)

Soil Sampling and Analysis Procedures

A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater.

Soil sample collection will occur according to the following method:

☐ The recommended method(s) found in Section 5 of Department Circular DEQ 9

☐ Other (describe)

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
BENNY KROPIUS	
B. Title (Type or Print)	**C. Phone No.**
COMPANY REP.	406-750-1639
D. Signature	**E. Date Signed**
Benny Kropius	2/5/2009

Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

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FEB 06 2009

DEQ/WPB
PERMITTING & COMPLIANCE DIV.

AGVISE LABORATORIES

902 13th Street North
P.O. Box 187
Benson, MN 56215
(320) 843-4109
FAX (320) 843-2074
email: agvise@willmar.com
Homepage: www.agvise.com

MANURE REPORT

CE0678
CENTROL INC.-DUTTON
211 CENTRAL AVE E
PO BOX 284
BRADY, MT 59416

ERNIE HABETS

CONRAD, MT

SAMPLE: NORTH EAST
TYPE: SOLID MANURE
SOURCE:
STORAGE:
LAB NUMBER: 1245

DATE RECEIVED: 12/01/08
DATE REPORTED: 12/10/08

Moisture: 25.0%

Dry Matter: 75.0%

	Dry Basis	As Received	lb/ton
Total Nitrogen (N):		0.99%	20
Phosphate (P_2O_5):	0.96%	0.72%	14
Potash (K_2O):	2.3%	1.7%	34
Total Carbon:	29%	22%	
Volatile Solids:	38%	29%	

Carbon : N Ratio = 22.2:1

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FAX (320) 843-2074
email: agvise@willmar.com
Homepage: www.agvise.com

MANURE REPORT

CE0678
CENTROL INC.-DUTTON
211 CENTRAL AVE E
PO BOX 284
BRADY, MT 59416

ERNIE HABETS

CONRAD, MT

SAMPLE: WEST
TYPE: SOLID MANURE
SOURCE:
STORAGE:
LAB NUMBER: 1246

DATE RECEIVED: 12/01/08
DATE REPORTED: 12/10/08

Moisture: 39.0%

Dry Matter: 61.0%

	Dry Basis	As Received	lb/ton
Total Nitrogen (N):		1.0%	20
Phosphate (P_2O_5):	1.4%	0.84%	17
Potash (K_2O):	3.2%	2.0%	39
Total Carbon:	37%	22%	
Volatile Solids:	61%	37%	

Carbon : N Ratio = 22.0:1

AGVISE LABORATORIES

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P.O. Box 187
Benson, MN 56215
(320) 843-4109
FAX (320) 843-2074
email: agvise@willmar.com
Homepage: www.agvise.com

MANURE REPORT

CE0678
CENTROL INC.-DUTTON
211 CENTRAL AVE E
PO BOX 284
BRADY, MT 59416

ERNIE HABETS

CONRAD, MT

SAMPLE: MIDDLE
TYPE: SOLID MANURE
SOURCE:
STORAGE:
LAB NUMBER: 1247

DATE RECEIVED: 12/01/08
DATE REPORTED: 12/10/08

Moisture: 25.0%

Dry Matter: 75.0%

	Dry Basis	As Received	lb/ton
Total Nitrogen (N):		1.2%	24
Phosphate (P_2O_5):	1.3%	0.97%	19
Potash (K_2O):	3.0%	2.3%	45
Total Carbon:	29%	22%	
Volatile Solids:	48%	36%	

Carbon : N Ratio = 18.3:1

NAME	SHIP TO
ADDRESS	ADDRESS
CITY, STATE, ZIP	CITY, STATE, ZIP

ORDER NUMBER	DEPARTMENT	SALESPERSON	WHEN SHIP	TERMS	HOW SHIP	DATE
						/ /

QUANTITY	DESCRIPTION	PRICE	AMOUNT

BUYER:

KEEP THIS SLIP FOR REFERENCE

NAME	SHIP TO
ADDRESS	ADDRESS
CITY, STATE, ZIP	CITY, STATE, ZIP

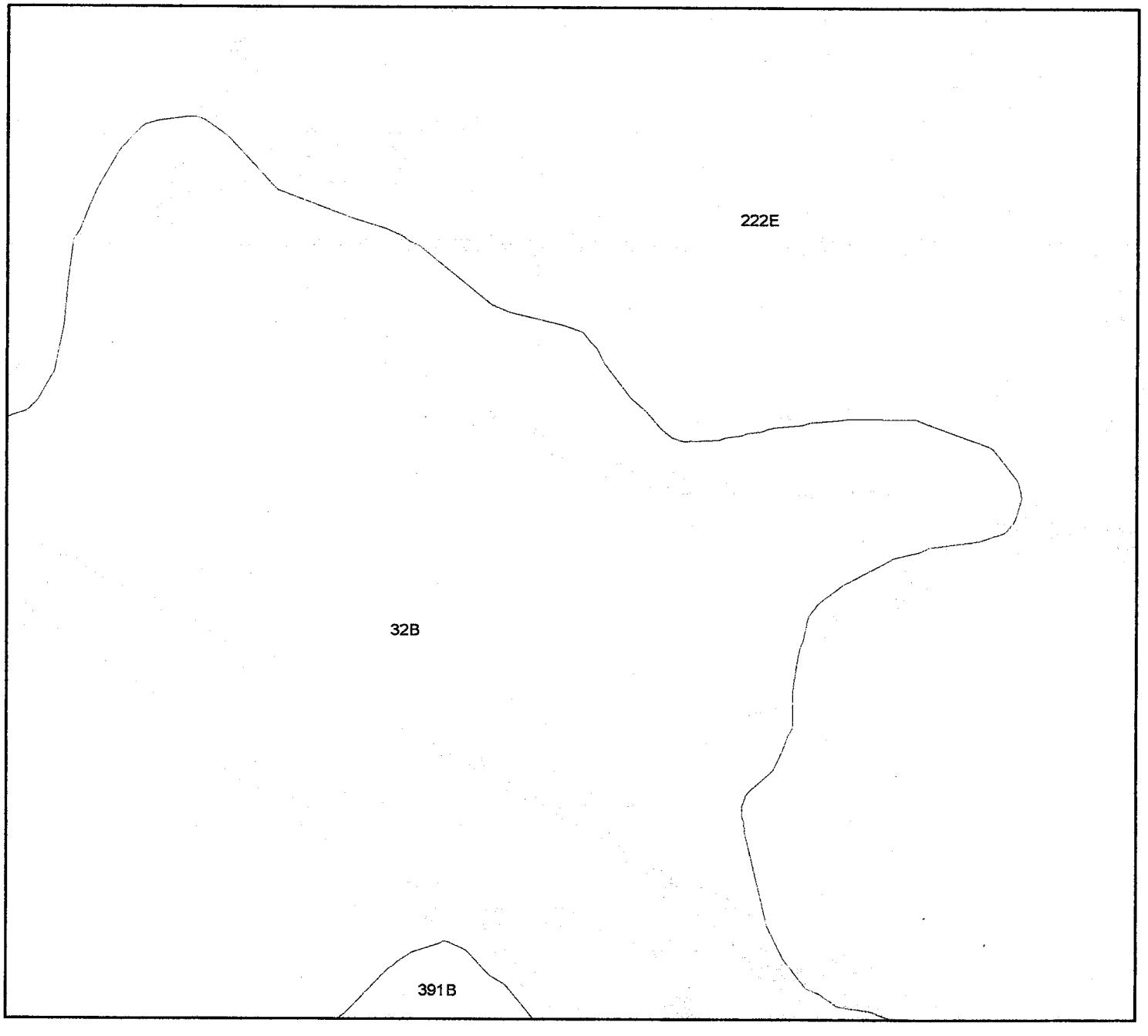
ORDER NUMBER	DEPARTMENT	SALESPERSON	WHEN SHIP	TERMS	HOW SHIP	DATE
						/ /

QUANTITY	DESCRIPTION	PRICE	AMOUNT
		[redacted]	
	TOTAL 261 LOADS		

BUYER:

adams
8100

KEEP THIS SLIP FOR REFERENCE



Legend

- soil_a_mt101
- plss_a_mt101

175 0 175 350 525 700
Feet

N

Legend

- soil_a_mt101
- plss_a_mt101

175 0 175 350 525 700
Feet

N

Legend

plss_a_mt101

340 0 340 680 1,020 1,360
Feet

N